

Abstract of the Disclosure

CYLINDER BLOCK FOR AN INTERNAL COMBUSTION ENGINE
HAVING A TAPERED COOLANT JACKET

A cylinder block has a number of cylinder bores and a water jacket at least partially surrounding the bores. When casting a cylinder block the water jacket is formed by a slender wall of a sand core. To enable the wall to be removed from the core box the wall must taper over its entire height. Prior art water jackets therefore taper from a minimum sand core wall width at the base to a large width at the top. The cylinder block of the invention has a water jacket which, when viewed in transverse section, is wider in an intermediate portion than at either its top or base. In providing a water jacket which is narrower at the top, there is more room for the addition of machined features on the top deck. Furthermore, a water jacket which is narrower at the base can have a greater depth than conventional water jackets.